

$$F_{\nabla} = 2\pi \cdot r^3 \frac{\sqrt{\epsilon_B}}{c} \left(\frac{\epsilon - \epsilon_B}{\epsilon + 2\epsilon_B} \right) (\nabla \cdot I)$$

 F_{∇} = Optical force on particle towards higher intensity

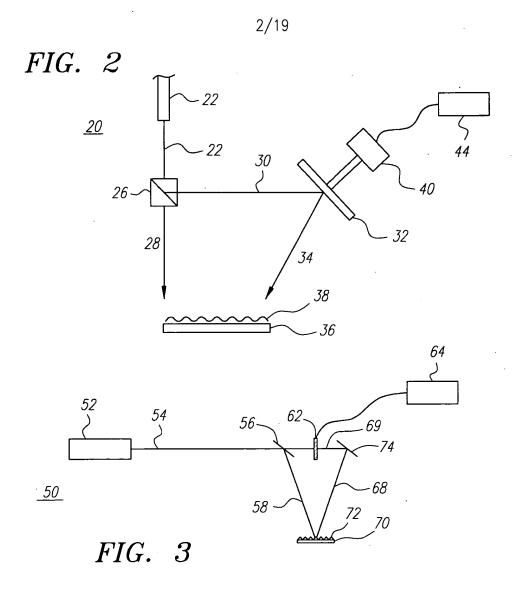
r = Radius of particle

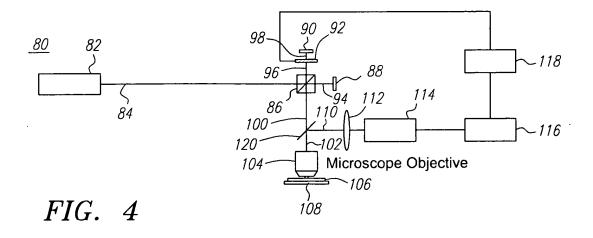
 ϵ_{B} = Dielectric constant of backround medium

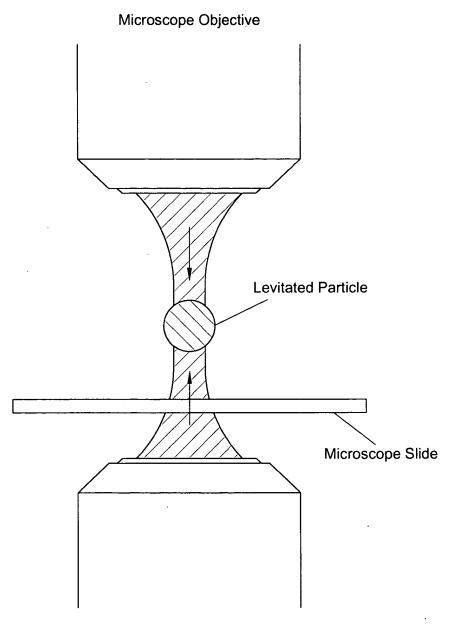
 ε = Dielectric constant of particle

I = Light intensity (W/cm²)

∇ = Spatial derivative

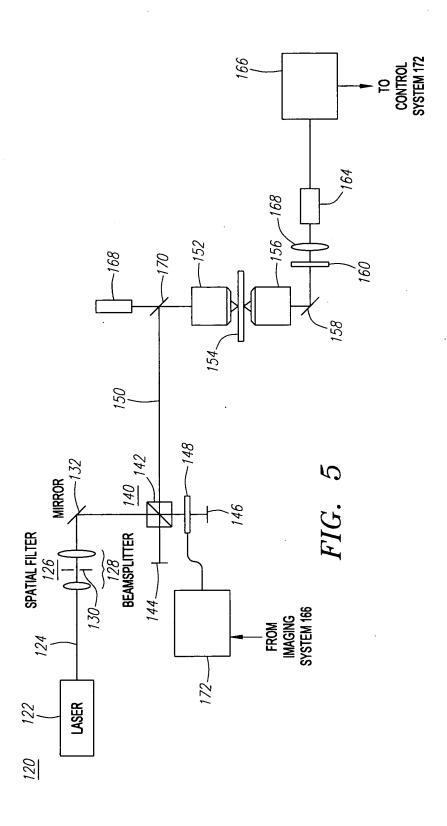


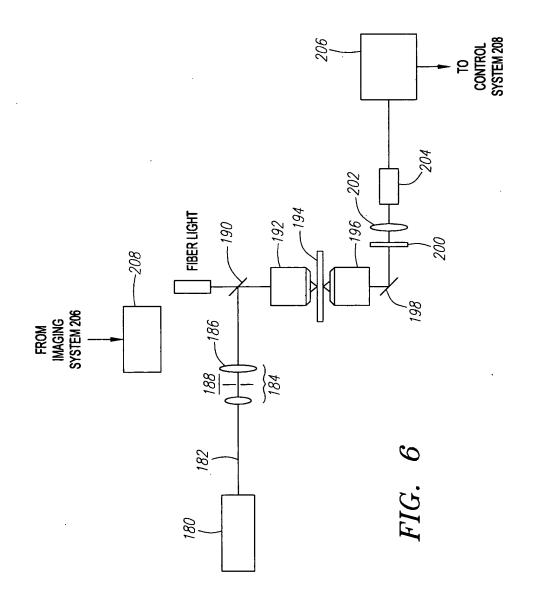


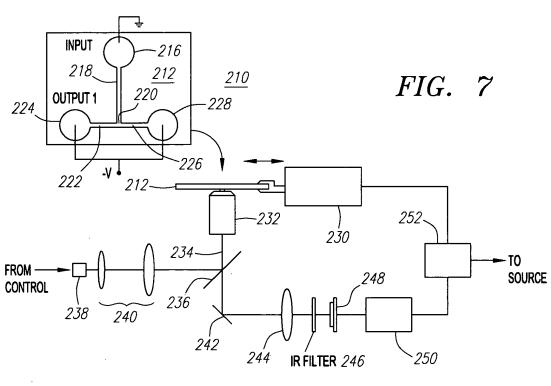


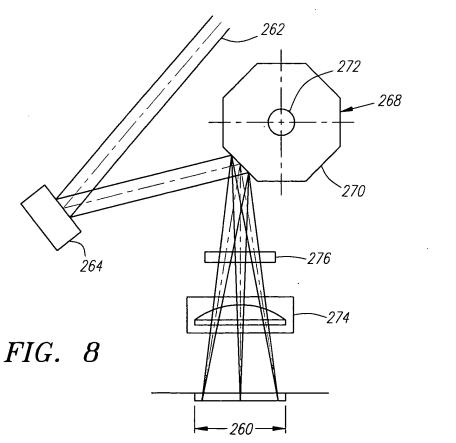
Microscope Objective

FIG. 4A









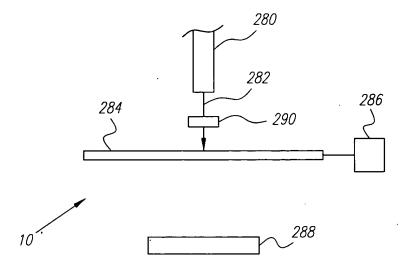


FIG. 9A

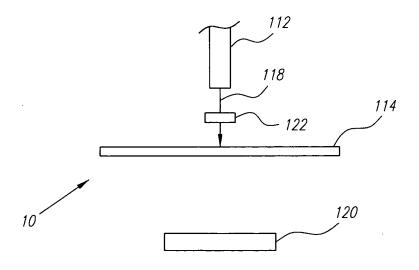
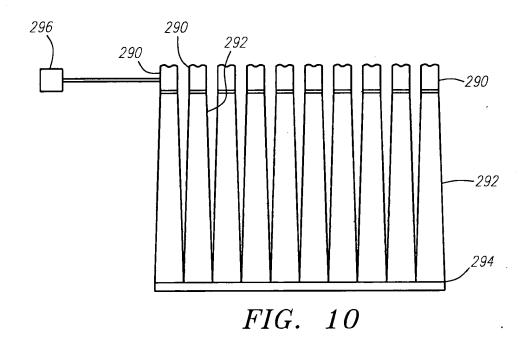
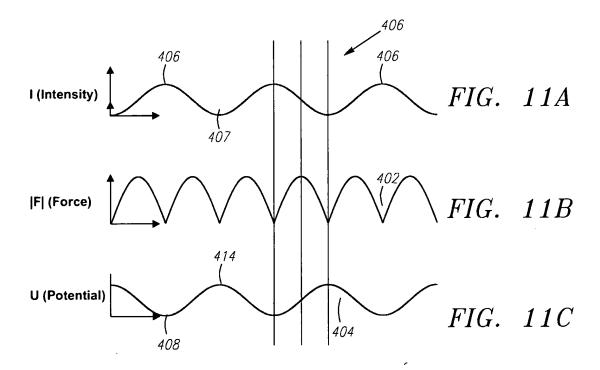


FIG. 9B





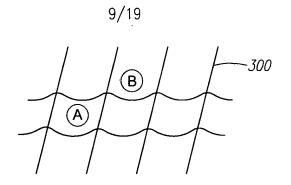
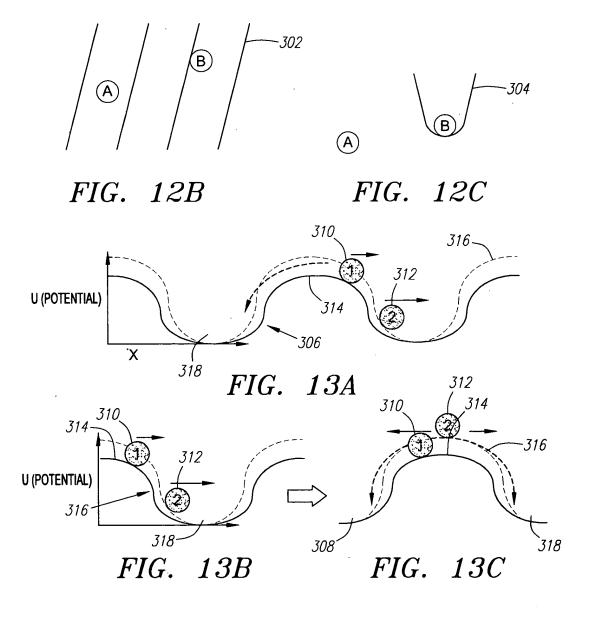
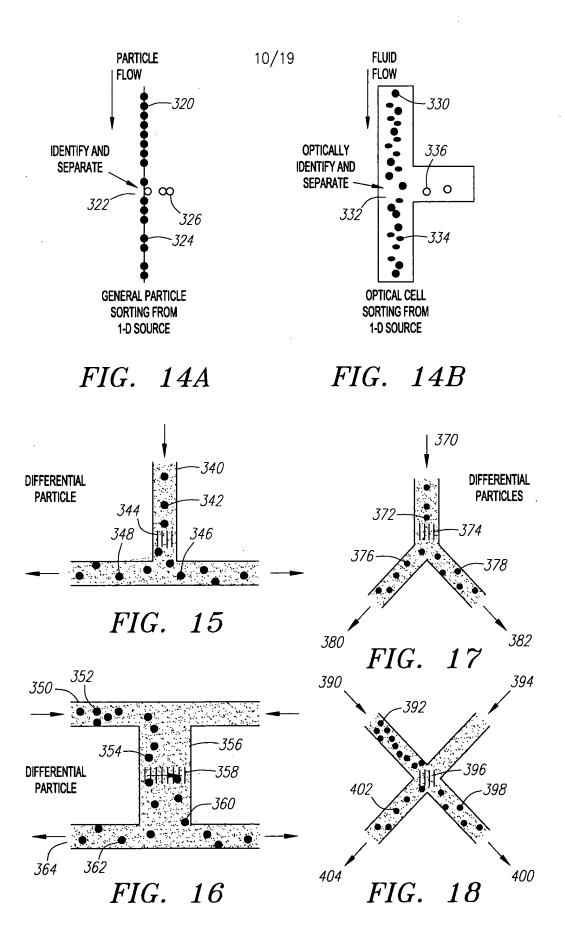
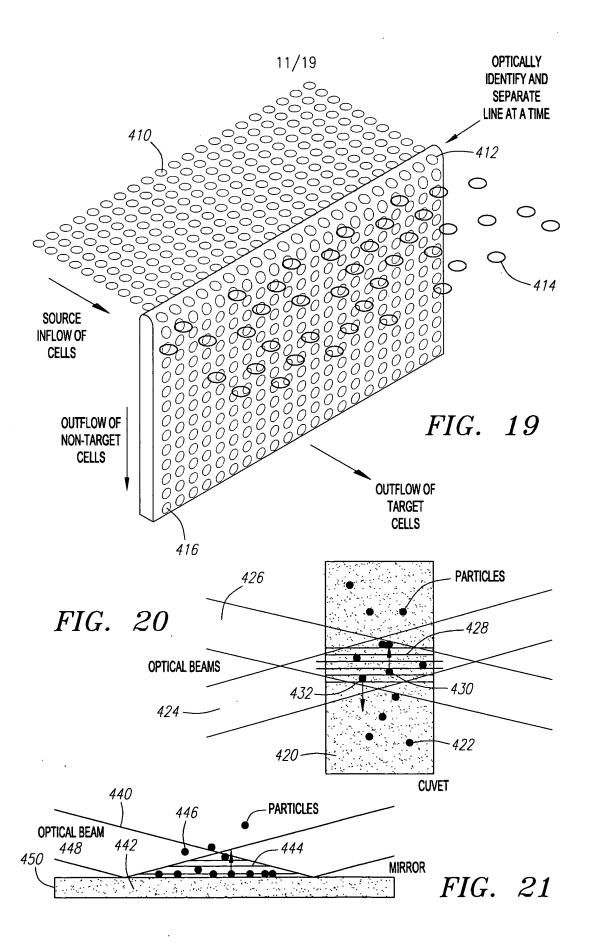


FIG. 12A







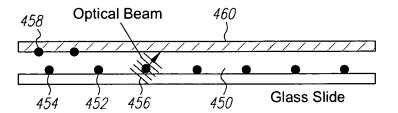
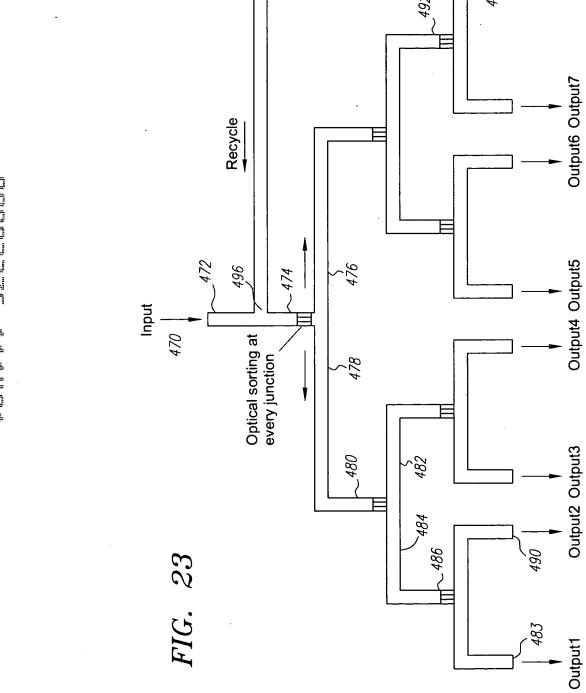
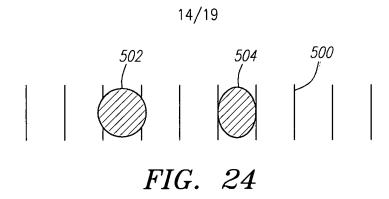


FIG. 22



DGGGETZE "IIIHOI



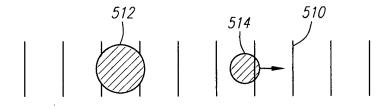


FIG. 25

Before:

SCATTER FORCE SEPARATION

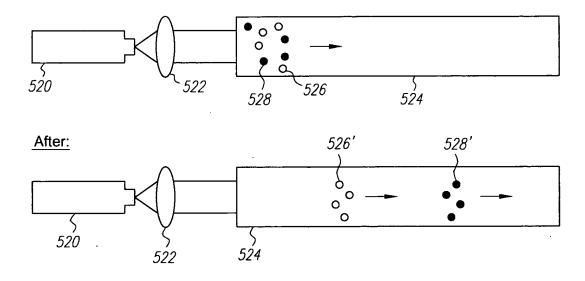
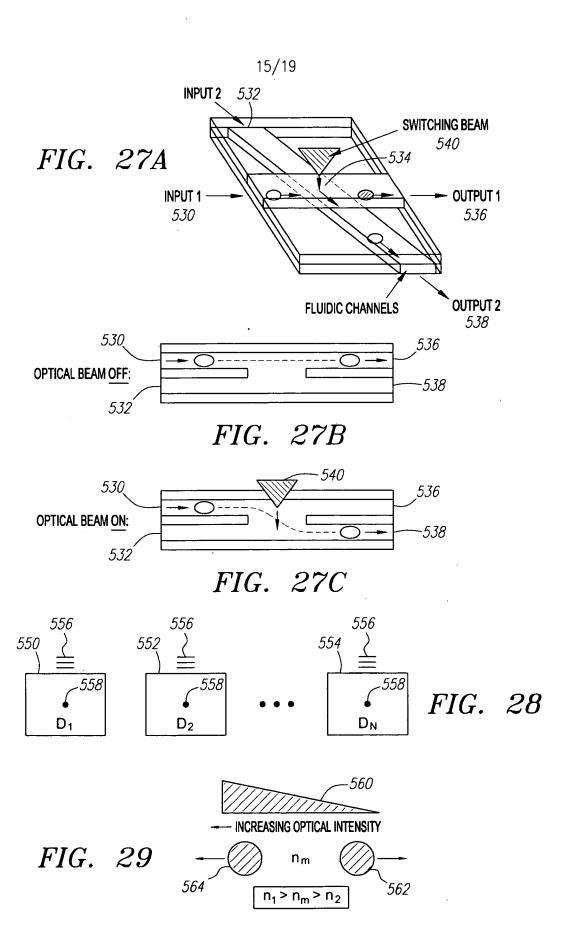
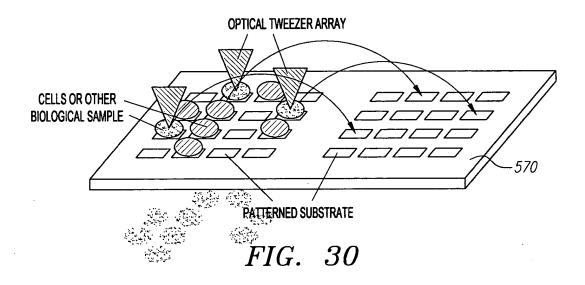


FIG. 26





 $\mbox{HEMOGLOBIN-O}_{2} \mbox{ ABSORPTION SPECTRUM}$

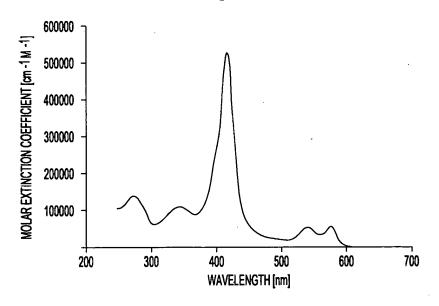


FIG. 31

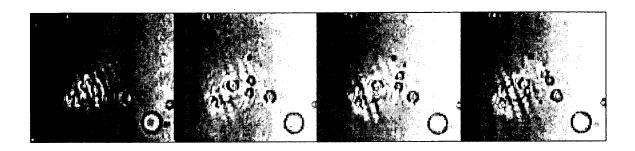


FIG. 32

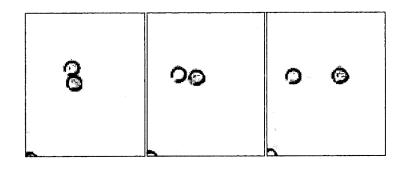


FIG. 33

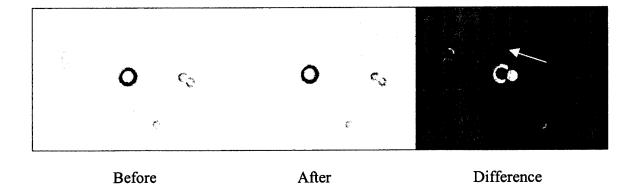
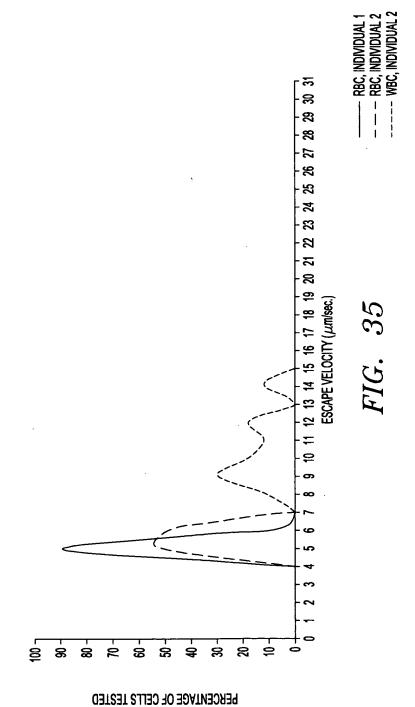


FIG. 34

DISTRIBUTION OF ESCAPE VELOCITIES
READING TAKEN IN PBS/1% BSA BUFFER
RAIN-X COATED SLIDE/CYTOP COATED COVERSLIP



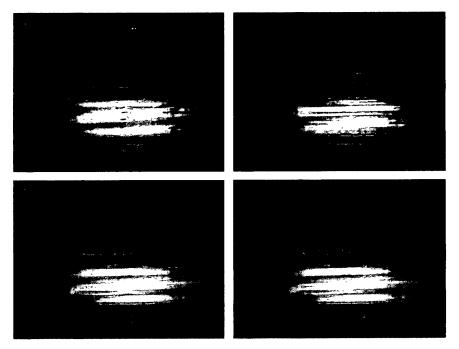


FIG. 36